

Backup and Restore Everywhere

HP and Intel's automated and secure solution



Backup and restore as a service for SMBs

The global market for backup and restore solutions targeted at Small and Midsize Businesses (SMBs) is potentially worth more than \$10 billion.¹ Backup and recovery software and services already represent 6.3% of total IT spending by SMBs.

Backup and recovery software and services already represent 6.3% of overall IT spending by SMBs

Companies can choose between traditional software-based PC backup solutions, with local management and data storage, and online solutions with remote management and data storage, accessed using a secure connection to a third-party IT service supplier. Online solutions allow PCs to access the backup infrastructure anytime, anywhere through a public Internet connection.

Today, approximately 60% of SMBs still use software-based backup solutions, while 40% have chosen online backup solutions.¹

Online backup and restore is a growing market, with demand driven both by stricter regulatory requirements incumbent on organizations that store personal data and the increasing number of teleworkers and business travelers.

Although many service providers already include easy-to-use and cost-effective solutions in their IT service portfolios, it is a highly competitive market and service providers are under pressure to find innovative and secure solutions that reduce the average amount of time required to back up and restore data.

HP and Intel backup and restore technologies

HP Enterprise Services (ES) recently launched an online backup and restore solution for PCs, while Intel[®] vPro[™] is PC platform technology providing enhanced security and manageability features.

Intel vPro comprises four separate technologies:

- Intel Active Management Technology (AMT)
- Intel Anti-Theft (AT) Technology
- Intel Virtualization Technology
- Intel Trusted Execution Technology

Operations such as operating system and software upgrades, file backups, antivirus scanning, and disk defragmentation are all hardware intensive, so can adversely affect user productivity. It is therefore more efficient to perform these operations during off-hours when users are not working. AMT is of particular interest in this regard as it allows PCs to be woken up remotely.

The HP Intel PC backup and restore solution

The HP Intel Communications, Media, and Entertainment (CME) Solution Center has developed a solution that combines AMT with HP PC Backup Service (PCBS).

HP supplies the PCBS agent containing individual customers' backup configurations, hosts the Internet-based service at a third-party data center, and provides the infrastructure necessary to operate the complete solution.

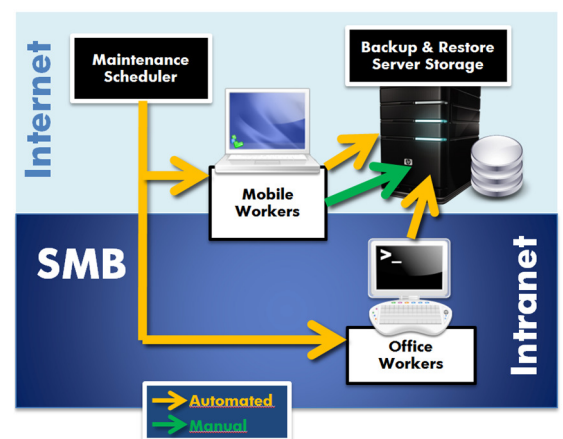


Figure 1: The backup and restore solution's architecture

¹ Reference : HP MarketPlace, May 2011





The HP Intel PC backup and restore solution (continued)

Intel provides the AMT technology that enables remote access to a PC whatever its state (on, off, hibernate, or sleep). The solution features out-of-band remote management, remote power management, out-of-hours patch management, agent detection, network traffic control, remote support calls, and more.

The solution's hardware platform comprises two main components (see Figure 1):

- Intel vPro PC equipped with Intel AMT and a backup agent.
- PCBS, including a connectivity proxy for secure connections initiated by Intel AMT and workflow software to determine the optimum time to wake up the remote PC

Backup software is supplied by Iron Mountain and uses an agent installed on the PC.

The solution may be extended in the future to incorporate Intel Advanced Encryption System New Instruction (AES-NI) technology, optimizing real-time encoding and decoding operations during backups.

HP Intel CME Solution Center's team and facilities

The HP Intel CME Solution Center has implemented a complete platform specifically to address the backup, restore, and storage needs of communications service providers (CSPs). SMBs can also benefit from this smart, automated, and reliable solution.

A demonstration of the Backup and Restore Everywhere solution is now available for testing. It runs on an Intel® Xeon® processor-based HP ProLiant server. Intel vPro PC is installed on this platform, together with Intel AMT and a backup agent service. The complete solution can be experienced either online or by visiting our premises.

With its team of dedicated experts, the HP Intel CME Solution Center also provides support for mobile workers wishing to test the solution.

The HP Intel CME Solution Center offers a range of programs specifically targeted at services for SMBs, including innovation workshops and proofs-of-concept.

HP and Intel key hardware components

HP Blade System c7000 enclosure

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